

# Subject Index

Ablative conditioning regimens. <i>See</i> Conditioning regimens, myeloablative	
ABO blood group matching, in allogeneic bone marrow transplantation	1006
Abstracts	
of February 2005 meetings, February Supplement 1	
of June 2005 meetings	921
Accreditation	
for hematopoietic stem cell transplantation	241
for umbilical cord blood transplantation	921, 938
Acute graft-versus-host disease	
after allogeneic bone marrow transplantation, treatment of	680
after allogeneic hematopoietic stem cell transplantation	403
chemokine receptor expression in	280
for Fanconi anemia	672
FcγRIIA-polymorphic site in	206
racial factors in	231
cardiac manifestations of	773
vs. chronic graft-versus-host disease	945
gastrointestinal manifestations of	734
liver manifestations of	805
mesenchymal stem cells for	321
overview of	S17
pathogenesis of	S21
preparative regimens causing	101
prevention of, mycophenolate mofetil with cyclosporine for	495
vs. stem cell source, in pediatric patients	362
steroid-resistant	
denileukin diftitox for	188
visilizumab for	465
Acyclovir, for cytomegalovirus infection prevention	136
Adenosine deaminase deficiency, gene therapy for	972
Adenovirus infections, in hematopoietic stem cell transplantation	781
Adhesion molecules, in graft-versus-host disease	371
Adoptive immunotherapy	
amotosalen-treated T cells for	169
with autologous hematopoietic stem cell transplantation	S34
Allogeneic bone marrow transplantation	
ABO blood group barrier in	1006
for acute lymphoblastic leukemia	
conditioning strategies for	448
evidence-based review of	823
for acute myelogenous leukemia, from matched sibling donors	122
for chronic myeloid leukemia, vs. peripheral blood stem cell transplantation	85
for Diamond-Blackfan anemia	600
graft-versus-host disease after	
across minor histocompatibility barriers	371
amotosalen-treated donor T cells for	169
treatment of	680
hemolytic uremic syndrome after, in pediatric patients	912
HLA-identical, for leukemia, graft-versus-host disease prevention in	814
infections after	362
in utero, dendritic cell action in	657
for lymphoma	
of central nervous system	93
outcomes of	39
minor histocompatibility antigen resistance in, mediation of	576
pulmonary complications in, natural history of, in pediatric patients	56
rejection of, assays for	252
with sublethal conditioning, synthetic cyclic heptapeptide effects on	979
from unrelated donor, conditioning regimen effects on	881
Allogeneic hematopoietic stem cell transplantation	
for acute lymphoblastic leukemia, in pediatric patients	999
antithymocyte globulin in	335, 609
aspergillosis after, computed tomography in	506
for autoimmune disease, position statement on	862
chimerism in, polymerase chain reaction for	558
for chronic myeloid leukemia, after nonmyeloablative conditioning	272
for chronic myelomonocytic leukemia	713
cytolytic effector cells with	161
cytomegalovirus infections after	
with nonmyeloablative vs. standard conditioning	423
tumor necrosis factor-α levels and	698
effector T-cells in	957
engraftment syndrome after	542
for Fanconi anemia, outcome of	672
graft-versus-host disease after	
cardiac manifestations of	773
chemokine receptor expression in	280
interleukin 12 and	1014
liver disease in	805
in pediatric patients	721
prevention of	383, 495
for hematologic malignancies	
from HLA-identical sibling	389
in pediatric patients	937
from HLA-identical sibling	
ABO blood group barrier in	1006
ethnic factors in	988
for hematologic malignancies	389
immune reconstitution after	
compared with donor siblings	354
cytomegalovirus	890
infections after	362
lung function after	288
for lymphoma	
chemotherapy with	739
nonmyeloablative	593
mesenchymal stem cells for, immunobiology of	321
for myelodysplastic syndrome, induction chemotherapy for	65
outcomes of, racial factors in	231
<i>Pneumocystis jirovecii</i> prophylaxis after, toxicity of	521
reduced-intensity, for hematologic malignancies, review of	403
T-cell alloreactivity in	S24
thrombotic microangiopathy after	
consensus summary on	571
sirolimus-induced	551
viral hemorrhagic cystitis after, in pediatric patients	797
viral respiratory infections after	781
Allogeneic peripheral blood stem cell transplantation	
for chronic myeloid leukemia, vs. bone marrow transplantation	85
Current Procedural Terminology codes for	871
for lymphoma, outcomes of	39
for myelodysplastic syndrome, outcomes of	619
nonmyeloablative conditioning regimens for	
for acute myeloid leukemia	764
for myelodysplastic syndrome	764
Allogeneic progenitor cell transplantation	
for acute myelogenous leukemia	108
for myelodysplastic syndrome	108
Allogeneic stem cell transplantation	
engraftment resistance to, cytokines and cytotoxic pathways in	1
graft-versus-host disease after	
FcγRIIA-polymorphic site in	206
tumor necrosis factor-α levels and	706
pulmonary complications after, prediction and prevention of	223
thymic function after, in pediatric patients	194
Alloreactivity, T-cell, in graft-versus-host disease	651, S24
American Association of Blood Banks, umbilical cord blood standards of	938
American Society for Blood and Bone Marrow Transplantation, evidence-based review statement of	819
AML. <i>See</i> Leukemia, acute myelogenous	
Amifostine, in autologous stem cell transplantation, for advanced refractory hematologic malignancies	1022
Amotosalen, donor T cells treated with, for graft-versus-host disease prevention, in allogeneic bone marrow transplantation	169
Amphotericin B, liposomal, for <i>Aspergillus</i> infections	77
Anemia	
Diamond-Blackfan, allogeneic bone marrow transplantation for	600
Fanconi, stem cell transplantation for, outcomes of	672
Animal studies	
acute rejection of bone marrow allografts	252
amotosalen-treated T cells	169
antithymocyte globulin in allogeneic hematopoietic cell transplantation	335
bone marrow transplantation	
for leukocyte adhesion deficiency	755
with sublethal conditioning	979
CD8 T cell immunodomination	260
dendritic cell transplantation	657

*Note: Page numbers starting with "S" are found in Supplement 2, February.*

- engraftment resistance, cytokines in ..... 1  
 graft-versus-host disease  
   adhesion and costimulatory molecules in ..... 371  
   models for ..... S21  
   hematopoietic stem cell assay ..... 487  
   resistance against minor histocompatibility antigen mismatch ..... 576  
 Antifungal agents, for *Aspergillus* infections ..... 77  
 Antithymocyte globulin  
   after allogeneic bone marrow transplantation, hemolytic uremic  
   syndrome and ..... 912  
   after allogeneic hematopoietic stem cell transplantation ..... 335, 609  
   before umbilical cord blood transplantation, for leukemia, in pediatric  
   patients ..... 637  
 Apheresis, Current Procedural Terminology codes for ..... 871  
 Apoptosis, in graft-versus-host disease ..... 371  
 Arrhythmias, cardiac, in graft-versus-host disease ..... 773  
*Aspergillus* infections  
   invasive, computed tomography in ..... 506  
   treatment of ..... 77  
 Autoimmune disease, allogeneic hematopoietic stem cell  
   transplantation for ..... 403, 862  
 Autologous bone marrow transplantation  
   for acute lymphoblastic leukemia, evidence-based review of ..... 823  
   for breast cancer, cytokine gene polymorphisms in ..... 455  
   for lymphoma, outcomes of ..... 39  
   for myocardial repair ..... S2, S7  
 Autologous hematopoietic stem cell transplantation  
   for acute lymphoblastic leukemia, evidence-based review of ..... 823  
   adoptive transfer in ..... S34  
   for breast cancer, immune reconstitution after ..... 472  
   conditioning regimens for ..... S40  
   FLT3 ligand after, dendritic cell population and ..... 23  
   for low-grade lymphoma, long-term outcome of ..... 129  
   pneumococcal vaccine responses after ..... 213  
   viral respiratory infections in ..... 781  
 Autologous peripheral blood stem cell transplantation  
   Current Procedural Terminology codes for ..... 871  
   for hematologic malignancy ..... S28  
   for Hodgkin disease, granulocyte colony-stimulating factor  
   reactions in ..... 816  
   for lymphoma  
   outcomes of ..... 39  
   rescue regimen for ..... 627  
 Autologous progenitor cell transplantation, with high-dose chemotherapy,  
   for advanced cancer ..... 297  
 Autologous stem cell transplantation  
   amifostine in ..... 1022  
   for lymphoma  
   chemotherapy and radiation with ..... 13  
   chemotherapy with ..... 739  
   for malignant infantile osteopetrosis ..... 115  
   as rescue regimen, for high-dose chemotherapy, for germ cell tumor ..... 903  
 B7-2, in graft-versus-host disease ..... 371  
 Bacteremia, after umbilical cord blood transplantation ..... 429  
 BEAM chemotherapy, mucositis prevention in ..... 512  
 Beclomethasone, for chronic graft-versus-host disease ..... 587  
 Biopsy, liver, in graft-versus-host disease ..... 805  
 BK virus infections, in hematopoietic stem cell transplantation, cystitis ..... 781  
 Bone marrow transplantation  
   allogeneic. *See* Allogeneic bone marrow transplantation  
   autologous. *See* Autologous bone marrow transplantation  
   Current Procedural Terminology codes for ..... 871  
 Bradycardia, in graft-versus-host disease ..... 773  
 Brain  
   lymphoma of  
   allogeneic bone marrow transplantation for ..... 93  
   hematopoietic stem cell transplantation with chemotherapy for ..... 739  
   tumors of, stem cells of ..... S12  
 Breast cancer  
   allogeneic hematopoietic stem cell transplantation for, cytomegalovirus  
   infections after, with nonmyeloablative vs. standard  
   conditioning ..... 423  
   autologous bone marrow transplantation for, cytokine gene  
   polymorphisms in ..... 455  
   autologous hematopoietic stem cell transplantation for, immune  
   reconstitution after ..... 472  
   high-dose chemotherapy for  
   pharmacokinetics of ..... 297  
   progenitor cell support in ..... 472  
 Busulfan  
   before allogeneic bone marrow transplantation, from unrelated  
   donor ..... 881  
   before allogeneic hematopoietic stem cell transplantation, for  
   myelodysplastic syndrome ..... 65  
   high-dose, with allogeneic blood or bone marrow transplantation, for  
   central nervous system lymphoma ..... 93  
   reduced-intensity  
   for allogeneic bone marrow transplantation, for leukocyte adhesion  
   deficiency ..... 755  
   for allogeneic hematopoietic stem cell transplantation ..... 437  
   before umbilical cord blood transplantation, for leukemia, in pediatric  
   patients ..... 637  
 Calcineurin inhibitors, for chronic graft-versus-host disease ..... 47  
 Campath-IH, for graft-versus-host disease ..... 734  
 Cancer  
   allogeneic hematopoietic stem cell transplantation for ..... 403  
   cytomegalovirus infections after, with nonmyeloablative vs. standard  
   conditioning ..... 423  
   autologous bone marrow transplantation for, cytokine gene  
   polymorphisms in ..... 455  
   high-dose chemotherapy for, pharmacokinetics of ..... 297  
   stem cells in  
   brain tumor ..... S12  
   leukemia ..... S9  
   self-renewal of ..... S14  
 Canine leukocyte adhesion deficiency, bone marrow transplantation for,  
   with nonmyeloablative conditioning ..... 755  
 Carboplatin  
   for germ cell tumors, autologous stem cell rescue for ..... 903  
   in high-dose chemotherapy regimen, for advanced cancer,  
   pharmacokinetics of ..... 297  
 Cardiomyolysis, in graft-versus-host disease ..... 773  
 Carmustine, high-dose, for autologous stem cell transplantation, for  
   lymphoma ..... 13  
 Caspofungin, for *Aspergillus* infections ..... 77  
 CD4-CD25 lymphocytes  
   regulatory function of ..... S46  
   umbilical cord blood transplantation and ..... 931  
 CD8 lymphocytes  
   in minor histocompatibility antigen mismatch, in allogeneic bone marrow  
   transplantation ..... 576  
   receptor epitope association rate of ..... 260  
 CD25 lymphocytes  
   regulatory function of ..... S46  
   umbilical cord blood transplantation and ..... 931  
 CD34 lymphocytes  
   assessment of, in umbilical cord blood transplantation ..... 241  
   in donor infusions, for acute myelogenous leukemia ..... 122  
 Cell processing, Current Procedural Terminology codes for ..... 871  
 Centers for Medicare and Medicaid Services, Current Procedural  
   Terminology codes for ..... 871  
 Chemokines, receptors for, in graft-versus-host disease, in allogeneic  
   hematopoietic stem cell transplantation ..... 280  
 Chemotherapy. *See also individual agents*  
   before allogeneic hematopoietic stem cell transplantation, for  
   myelodysplastic syndrome ..... 65  
   after failed autologous peripheral blood stem cell transplantation ..... 627  
   with hematopoietic stem cell transplantation, for acute lymphoblastic  
   leukemia, in pediatric patients ..... 823  
   high-dose  
   for advanced cancer, pharmacokinetics of ..... 297  
   with allogeneic blood or bone marrow transplantation, for central  
   nervous system lymphoma ..... 93  
   for autologous stem cell transplantation  
   for breast cancer ..... 472  
   for Hodgkin's disease ..... 688  
   for lymphoma ..... 13  
   for germ cell tumors, autologous stem cell rescue for ..... 903  
   mucositis prevention in ..... 512  
   for lymphoma  
   failure of, allogeneic hematopoietic stem cell transplantation for ..... 593  
   T-cell lymphoblastic, hematopoietic stem cell transplantation and  
   chemotherapy for ..... 739  
   before umbilical cord blood transplantation, for leukemia, in pediatric  
   patients ..... 637  
 Chimerism  
   in allogeneic bone marrow transplantation ..... 657  
   for leukocyte adhesion deficiency ..... 755  
   rejection and ..... 252  
   in allogeneic hematopoietic stem cell transplantation  
   for autoimmune disease ..... 862  
   from unrelated donors ..... 272  
   detection of, polymerase chain reaction in ..... 345  
   polymerase chain reaction for ..... 558  
   in umbilical cord blood transplantation, for thalassemia major ..... 349  
 CHOP regimen, after failed autologous peripheral blood stem cell  
   transplantation ..... 627

- Chronic graft-versus-host disease  
 vs. acute graft-versus-host disease ..... 945  
 after allogeneic hematopoietic stem cell transplantation ..... 403, 721  
 cardiac manifestations of ..... 773  
 diagnosis of, clinical trials for ..... 943, 945  
 liver manifestations in ..... 805  
 staging of, clinical trials for ..... 943, 945  
 treatment of ..... 945  
   beclomethasone for ..... 587  
   mycophenolate mofetil for ..... 307  
   sirolimus for ..... 47  
 Cidofovir, for viral hemorrhagic cystitis, in allogeneic stem cell  
 transplantation ..... 797  
 Cisplatin, high-dose, for autologous stem cell transplantation, for lymphoma  
 ..... 13  
 Clinical trials  
   of allogeneic hematopoietic stem cell transplantation, for autoimmune  
   disease ..... 862  
   of chronic graft-versus-host disease ..... 943, 945  
 Codes, Current Procedural Terminology codes ..... 871  
 Computed tomography, in aspergillosis, after allogeneic hematopoietic stem  
 cell transplantation ..... 506  
 Conditioning regimens  
   for allogeneic bone marrow transplantation  
     for acute lymphoblastic leukemia ..... 448  
     for central nervous system lymphoma ..... 93  
     from unrelated donor ..... 881  
   for allogeneic hematopoietic stem cell transplantation  
     lung function after ..... 288  
     for myelodysplastic syndrome ..... 65  
   for autologous hematopoietic stem cell transplantation ..... S40  
   gastrointestinal toxicity from, graft-versus-host disease risk in ..... 101  
   irradiation in. *See* Irradiation  
   myeloablative  
     for allogeneic hematopoietic stem cell transplantation, lung function  
     after ..... 288  
     cytomegalovirus infections after ..... 423  
     graft-versus-host disease prevention after ..... 495  
     for umbilical cord blood transplantation ..... 928, 929  
   nonmyeloablative  
     for allogeneic bone marrow transplantation, for leukocyte adhesion  
     deficiency ..... 755  
     for allogeneic hematopoietic stem cell transplantation  
       for lymphoma ..... 593  
       review of ..... 403  
       survival in ..... 542  
     for allogeneic peripheral blood stem cell transplantation  
       for acute myeloid leukemia ..... 764  
       for myelodysplastic syndrome ..... 764  
       for myeloid leukemia ..... 437  
       antithymocyte globulin in ..... 335  
       for chronic myeloid leukemia ..... 272  
       cytomegalovirus infections after ..... 423  
       for umbilical cord blood transplantation ..... 429, 929  
 Cord blood. *See* Umbilical cord blood  
 Coronary artery disease, in graft-versus-host disease ..... 773  
 Corticosteroids, graft-versus-host disease resistant to, denileukin  
 diftitox for ..... 188  
 Costimulatory molecules, in graft-versus-host disease ..... 371  
 Cryopreservation, Current Procedural Terminology codes for ..... 871  
 Current Procedural Terminology codes ..... 871  
 Cyclic heptapeptide 802-2, in allogeneic bone marrow transplantation .. 979  
 Cyclophosphamide  
   before allogeneic bone marrow transplantation, from unrelated  
   donor ..... 881  
   before allogeneic hematopoietic stem cell transplantation, for  
   myelodysplastic syndrome ..... 65  
   after failed autologous peripheral blood stem cell transplantation ..... 627  
   high-dose, with allogeneic blood or bone marrow transplantation, for  
   central nervous system lymphoma ..... 93  
 Cyclosporine  
   for acute graft-versus-host disease prevention ..... 495  
   for cytotoxic T-cell suppression ..... 1031  
   for graft-versus-host disease prevention ..... 814  
 Cystitis, hemorrhagic, in allogeneic hematopoietic stem cell transplantation,  
 in pediatric patients ..... 797  
 Cytokines  
   in engraftment resistance, to allogeneic hematopoietic stem cells ..... 1  
   gene polymorphisms of, in autologous bone marrow transplantation, for  
   breast cancer ..... 455  
   reconstitution of, after allogeneic hematopoietic stem cell  
   transplantation ..... 890  
 Cytomegalovirus infections  
   after allogeneic bone marrow transplantation, hemolytic uremic syndrome  
   and ..... 912  
   after allogeneic hematopoietic stem cell transplantation, immune  
   reconstitution and ..... 890  
   after allogeneic stem cell transplantation  
     with nonmyeloablative vs. standard conditioning ..... 423  
     tumor necrosis factor- $\alpha$  levels and ..... 698  
   before hematopoietic cell transplantation, complications due to ..... 136  
   transmission of, in umbilical cord blood transplantation ..... 35  
 Cytopenia, autoimmune, allogeneic hematopoietic stem cell transplantation  
 for, position statement on ..... 862  
 Cytoprotection, in autologous stem cell transplantation, amifostine in .... 1022  
 Cytotoxic effector cells  
   in allogeneic hematopoietic cell transplantation ..... 957  
   immunotherapy with ..... 161  
   for lymphoma ..... 181  
   for minor histocompatibility antigen mismatch ..... 576  
   suppression of ..... 1031  
 Dapsone, for *Pneumocystis jiroveci* prophylaxis, after allogeneic hematopoietic  
 stem cell transplantation, toxicity of ..... 521  
 Dendritic cells  
   reconstitution of, in autologous hematopoietic stem cell transplantation,  
   FLT3 ligand for ..... 23  
   transplantation of, in allogeneic bone marrow transplantation ..... 657  
 Denileukin diftitox, for graft-versus-host disease, steroid-resistant ..... 188  
 Diabetes mellitus, hematopoietic stem cell assay in ..... 487  
 Diamond-Blackfan anemia, allogeneic bone marrow transplantation for ... 600  
 Diarrhea, in conditioning regimens, graft-versus-host disease risk in .... 101  
 Docetaxel, high-dose, for advanced cancer, pharmacokinetics of ..... 297  
 Donor(s)  
   lymphocyte infusions from  
     after allogeneic hematopoietic stem cell transplantation, for  
     autoimmune disease ..... 862  
     amotosalen-treated ..... 169  
     antithymocyte globulin clearance and ..... 609  
     CD34+, in acute myelogenous leukemia ..... 122  
     Current Procedural Terminology codes for ..... 871  
   sibling  
     in allogeneic stem cell transplantation  
       for Fanconi anemia ..... 672  
       immune recovery comparison with ..... 354  
     for bone marrow transplantation, in acute myelogenous leukemia ..... 122  
     identical, for hematopoietic stem cell transplantation ..... 389  
   unrelated  
     for bone marrow transplantation  
       conditioning regimen and ..... 881  
       infection rate and ..... 362  
     for hematopoietic stem cell transplantation, for chronic myeloid  
     leukemia ..... 272  
     for umbilical cord transplantation  
       infection rate and ..... 362  
       for thalassemia major ..... 349  
 E. Donnell Thomas Lecture, on T-cell alloresponses ..... 651  
 Effector T-cells, in allogeneic hematopoietic cell transplantation ..... 957  
 Elderly persons, myelodysplastic syndrome in, allogeneic peripheral blood  
 stem cell transplantation for ..... 764  
 Engraftment  
   facilitation of  
     mesenchymal stem cells for ..... 321  
     regulatory T cells for ..... S46  
   resistance to, in purified allogeneic hematopoietic stem cells ..... 1  
 Engraftment syndrome, after allogeneic hematopoietic stem cell  
 transplantation ..... 542  
 Enteroviral infections, in hematopoietic stem cell transplantation ..... 781  
 Epstein-Barr virus infections, transmission of, in umbilical cord blood  
 transplantation ..... 35  
 Erythema nodosum, due to granulocyte colony-stimulating factor ..... 816  
 Esophagus, chronic graft-versus-host disease manifestations in ..... 945  
 Etanercept, for graft-versus-host disease ..... 680  
 Ethnic differences, in hematopoietic stem cell transplantation, from  
 identical siblings ..... 988  
 Etoposide  
   for germ cell tumors, autologous stem cell rescue for ..... 903  
   high-dose, for autologous stem cell transplantation  
     for Hodgkin's disease ..... 688  
     for lymphoma ..... 13, 688

- Evidence-based review  
 American Society for Blood and Bone Marrow Transplantation  
 statement on ..... 819  
 of hematopoietic stem cells transplantation, for acute lymphoblastic  
 leukemia ..... 823  
 Eye, chronic graft-versus-host disease manifestations in ..... 945
- Fanconi anemia, stem cell transplantation for, outcomes of ..... 672  
 Fas ligand, in engraftment resistance, to allogeneic hematopoietic  
 stem cells ..... 1  
 FcγRIIA-polymorphic site, as target for graft-versus-host disease, in  
 allogeneic stem cell transplantation ..... 206  
 FLT3 ligand, after autologous hematopoietic stem cell transplantation,  
 dendritic cell population and ..... 23  
 Fludarabine, reduced-intensity  
 for allogeneic hematopoietic stem cell transplantation ..... 437  
 for allogeneic peripheral blood stem cell transplantation ..... 764  
 Foscarnet, for cytomegalovirus infection prevention ..... 136
- Gastrointestinal disorders  
 in acute graft-versus-host disease ..... 734  
 in chronic graft-versus-host disease ..... 945  
 in conditioning regimens, graft-versus-host disease risk in ..... 101  
 Gene therapy, for immune deficiencies ..... 972  
 Genitalia, chronic graft-versus-host disease manifestations in ..... 945  
 Germ cell tumors, chemotherapy for, autologous stem cell rescue for ..... 903  
 Glioblastoma, stem cells of ..... S12  
 Glossitis, after allogeneic hematopoietic stem cell transplantation, in  
 pediatric patients ..... 721
- Graft-versus-host disease  
 acute. *See* Acute graft-versus-host disease  
 adhesion and costimulatory molecules in ..... 371  
 after allogeneic bone marrow transplantation  
 for chronic myeloid leukemia ..... 85  
 treatment of ..... 680  
 after allogeneic hematopoietic stem cell transplantation ..... 403  
 chemokine receptor expression in ..... 280  
 for Fanconi anemia ..... 672  
 interleukin 12 and ..... 1014  
 liver disease in ..... 805  
 in pediatric patients ..... 721  
 racial factors in ..... 231  
 after allogeneic peripheral blood stem cell transplantation, for chronic  
 myeloid leukemia ..... 85  
 after allogeneic stem cell transplantation  
 FcγRIIA-polymorphic site in ..... 206  
 tumor necrosis factor-α levels and ..... 706  
 after autologous bone marrow transplantation, cytokine gene  
 polymorphisms in ..... 455  
 cardiac manifestations of ..... 773  
 chronic. *See* Chronic graft-versus-host disease  
 in cotransplantation of hematopoietic stem cell and mesenchymal cells,  
 from HLA-identical sibling ..... 389  
 diagnosis of, clinical trials for ..... 943, 945  
 due to preparative regimens ..... 101  
 gastrointestinal, treatment of ..... 734  
 gene therapy for ..... 972  
 liver manifestations in ..... 805  
 mesenchymal stem cells for ..... 321  
 overview of ..... S17  
 pathogenesis of ..... S21  
 prevention of  
 in allogeneic bone marrow transplantation, amotosalen-treated  
 donor T cells for ..... 169  
 in allogeneic hematopoietic stem cell transplantation, for autoimmune  
 disease ..... 862  
 in utero allogeneic bone marrow transplantation and ..... 657  
 methotrexate/cyclosporine trials ..... 814  
 mucositis in ..... 383  
 mycophenolate mofetil with cyclosporine for ..... 495  
 regulatory T cells for ..... S46  
 staging of, clinical trials for ..... 943, 945  
 steroid-resistant  
 denileukin difitox for ..... 188  
 visilizumab for ..... 465  
 T-cell alloreactivity in ..... 651, S24  
 treatment of  
 beclomethasone for ..... 587  
 mycophenolate mofetil for ..... 307  
 sirolimus for ..... 47
- Graft-versus-leukemia effect, T-cell transfer for ..... S34  
 Graft-versus-lymphoma effect, in hematopoietic stem cell transplantation,  
 for T-cell lymphoblastic lymphoma ..... 739  
 Granulocyte colony-stimulating factor, erythema nodosum due to ..... 816  
 Granulocyte-macrophage colony-stimulating factor, after failed autologous  
 peripheral blood stem cell transplantation ..... 627  
 GVHD. *See* Graft-versus-host disease
- Hair, chronic graft-versus-host disease manifestations in ..... 945  
 Heart  
 graft-versus-host disease manifestations in ..... 773  
 repair of, autologous bone marrow transplantation for ..... S2, S7  
 Hematopoietic stem cells  
 assay for ..... 487  
 in leukemia ..... S9  
 normal  
 brain tumor ..... S12  
 vs. leukemia ..... S9  
 peripheral. *See* Allogeneic peripheral blood stem cell transplantation;  
 Autologous peripheral blood stem cell transplantation  
 transplantation of. *See also* Allogeneic hematopoietic stem cell  
 transplantation; Autologous hematopoietic stem cell  
 transplantation  
 evidence-based review of ..... 819, 823  
 quality in ..... 241  
 Hemoglobinopathies, gene therapy for ..... 972  
 Hemolytic uremic syndrome  
 after allogeneic hematopoietic stem cell transplantation ..... 571  
 after bone marrow transplantation, in pediatric patients ..... 912  
 Hemorrhagic cystitis, in allogeneic hematopoietic stem cell transplantation,  
 in pediatric patients ..... 797  
 Herpesvirus infections, transmission of, in umbilical cord blood  
 transplantation ..... 35
- HLAs (human leukocyte antigens)  
 in allogeneic hematopoietic stem cell transplantation survival ..... 231  
 in hematopoietic stem cell transplantation, unrelated, for chronic myeloid  
 leukemia ..... 272  
 identical  
 in allogeneic bone marrow transplantation, ABO blood group  
 and ..... 1006  
 in bone marrow transplantation, graft-versus-host disease  
 prevention in ..... 814  
 in hematopoietic stem cell and mesenchymal cell transplantation ..... 389  
 in hematopoietic stem cell transplantation, ethnic differences in ..... 988  
 in microchimerism detection ..... 345
- Hodgkin disease  
 autologous peripheral blood stem cell transplantation for ..... S28  
 granulocyte colony-stimulating factor reactions in ..... 816  
 salvage regimen for ..... 688  
 autologous stem cell transplantation for, amifostine cytoprotection  
 in ..... 1022  
 cytotoxic effector cells for ..... 181
- Host-versus-graft response, T-cell alloreactivity in ..... 651  
 HSCT. *See* Hematopoietic stem cells, transplantation of
- Human herpesvirus-6 infections  
 subtypes of, after bone marrow transplantation, polymerase chain reaction  
 for ..... 530  
 transmission of, in umbilical cord blood transplantation ..... 35
- Human herpesvirus-7 infections, transmission of, in umbilical cord blood  
 transplantation ..... 35
- Human herpesvirus-8 infections, transmission of, in umbilical cord blood  
 transplantation ..... 35
- Human leukocyte antigens. *See* HLAs
- Hydroxydaunomycin, after failed autologous peripheral blood stem cell  
 transplantation ..... 627
- Idarubicin, high-dose, for autologous stem cell transplantation  
 for Hodgkin's disease ..... 688  
 for lymphoma ..... 688
- Ifosamide  
 for germ cell tumors, autologous stem cell rescue for ..... 903  
 high-dose, for autologous stem cell transplantation  
 for Hodgkin's disease ..... 688  
 for lymphoma ..... 688
- Immune system  
 chronic graft-versus-host disease manifestations in ..... 945  
 reconstitution of  
 after allogeneic hematopoietic stem cell transplantation ..... 403  
 cytomegalovirus ..... 890  
 after allogeneic stem cell transplantation, comparison with sibling  
 donors ..... 354  
 antithymocyte globulin clearance and ..... 609  
 after autologous hematopoietic stem cell transplantation, for breast  
 cancer ..... 472  
 limitations of ..... B43  
 regulatory T cells in ..... S46  
 after umbilical cord blood transplantation ..... 921, 931
- Immunization, pneumococcal, response to, after autologous hematopoietic  
 stem cell transplantation ..... 213

- Immunodeficiency, gene therapy for ..... 972
- Immunotherapy  
 amotosalen-treated T cells for ..... 169  
 after autologous hematopoietic stem cell transplantation, dendritic cell  
   population and ..... 23  
 in autologous hematopoietic stem cell transplantation ..... S34  
 cytolytic effector cells for ..... 161  
 targeted radiation with, for autologous hematopoietic stem cell  
   transplantation ..... S40
- Infants, acute lymphoblastic leukemia in, hematopoietic stem cell  
 transplantation for ..... 999
- Infections. *See also specific infections*  
 after allogeneic hematopoietic stem cell transplantation ..... 403  
 after transplantation, stem cell source and ..... 362  
 after umbilical cord blood transplantation ..... 429, 930
- Influenza, in hematopoietic stem cell transplantation ..... 781
- Innate immunity, cytolytic effects cells in ..... 161
- Intercellular adhesion molecule-1, in graft-versus-host disease ..... 371
- Interferon- $\gamma$   
 after allogeneic hematopoietic stem cell transplantation ..... 890  
 graft-versus-host disease and ..... 706  
 for cytotoxic effector cell induction, in lymphoma ..... 181  
 gene polymorphisms of, in autologous bone marrow transplantation, for  
   breast cancer ..... 455
- Interleukin 2, for cytotoxic effector cell induction, in lymphoma ..... 181
- Interleukin 10  
 gene polymorphisms of, in autologous bone marrow transplantation, for  
   breast cancer ..... 455  
 in graft-versus-host disease ..... S24
- Interleukin 12, graft-versus-host disease and, after allogeneic hematopoietic  
 cell transplantation ..... 1014
- Irradiation  
 involved-field  
   for autologous hematopoietic stem cell transplantation ..... S40  
   for autologous stem cell transplantation, for lymphoma ..... 13  
 total body  
   with allogeneic blood or bone marrow transplantation, for central  
     nervous system lymphoma ..... 93  
   before allogeneic bone marrow transplantation, from unrelated donor,  
     ..... 881  
   before allogeneic hematopoietic stem cell transplantation ..... 288, 335  
   before allogeneic peripheral blood stem cell transplantation ..... 764  
   before allogeneic stem cell transplantation, pulmonary complications  
     in ..... 223
- Itraconazole, for *Aspergillus* infections ..... 77
- JC virus infections, in hematopoietic stem cell transplantation ..... 781
- Joints, chronic graft-versus-host disease manifestations in ..... 945
- Kidney, dysfunction/failure of  
 after allogeneic bone marrow transplantation ..... 912  
 after allogeneic hematopoietic stem cell transplantation ..... 571  
 in umbilical cord blood transplantation, mycophenolate mofetil  
   concentrations in ..... 977
- Letters to the editor  
 bone marrow transplantation for aplastic anemia outcome ..... 567  
 Campath-1H for graft-versus-host disease ..... 734  
 cyclosporine for engraftment failure ..... 74  
 erythema nodosum due to granulocyte colony-stimulating factor ..... 816  
 graft-versus-host disease prevention ..... 814  
 haploidentical stem cell transplantation for aplastic anemia ..... 399  
 immune-modulatory function of mesenchymal stem cells ..... 1031  
 posttransplantation lymphoproliferative disease after umbilical cord blood  
   transplantation ..... 732  
 pulmonary thrombi after allogeneic hematopoietic cell  
   transplantation ..... 484  
 sirolimus toxicity ..... 647
- Leukemia  
 acute lymphoblastic  
   allogeneic bone marrow transplantation for, conditioning  
     strategies for ..... 448  
   hematopoietic stem cell transplantation for  
     chemotherapy with, in pediatric patients ..... 823  
     in pediatric patients ..... 999  
 acute lymphocytic, umbilical cord blood transplantation for ..... 937  
 acute myelogenous  
   allogeneic bone marrow transplantation for, from matched sibling  
     donors ..... 122  
   autologous peripheral blood stem cell transplantation for ..... S28  
   autologous stem cell transplantation for, amifostine  
     cytoprotection in ..... 1022  
   umbilical cord blood transplantation for ..... 928
- acute myeloid  
 allogeneic hematopoietic stem cell transplantation for ..... 403  
 allogeneic peripheral blood stem cell transplantation for, in elderly  
   persons ..... 764  
 hematopoietic stem cells in ..... S9  
 umbilical cord blood transplantation for ..... 936
- autologous hematopoietic stem cell transplantation for  
 radioimmunotherapy before ..... S40  
 T-cell adoptive transfer after ..... S34
- chronic lymphoid, allogeneic hematopoietic stem cell  
 transplantation for ..... 403
- chronic myelocytic, HLA-identical bone marrow transplantation for,  
 graft-versus-host disease prevention in ..... 814
- chronic myeloid  
 allogeneic bone marrow transplantation for, vs. peripheral blood stem  
   cell transplantation ..... 85  
 allogeneic hematopoietic stem cell transplantation for ..... 272, 403  
 umbilical cord blood transplantation for ..... 928
- chronic myelomonocytic, allogeneic hematopoietic stem cell  
 transplantation for ..... 713
- cotransplantation of hematopoietic stem cell and mesenchymal cells for,  
 from HLA-identical sibling ..... 389
- due to gene therapy ..... 972
- myeloid, allogeneic hematopoietic stem cell transplantation for, reduced-  
 intensity conditioning regimen for ..... 437
- Leukocyte adhesion deficiency, canine, bone marrow transplantation for,  
 with nonmyeloablative conditioning ..... 755
- Liver  
 dysfunction of, in umbilical cord blood transplantation, mycophenolate  
   mofetil concentrations in ..... 977  
 graft-versus-host disease of ..... 805, 945
- Lung, complications in  
 in allogeneic bone marrow transplantation ..... 56, 223  
 in allogeneic hematopoietic stem cell transplantation ..... 136, 288  
 chronic graft-versus-host disease ..... 945
- Lymphocyte(s). *See* Donor(s), lymphocyte infusions from; T cell(s)
- Lymphoma  
 allogeneic bone marrow transplantation for, with central nervous system  
   involvement ..... 93  
 allogeneic hematopoietic stem cell transplantation for ..... 403  
 reduced-intensity ..... 593  
 autologous hematopoietic stem cell transplantation for  
   long-term outcome of ..... 129  
   radioimmunotherapy before ..... S40  
 autologous peripheral blood stem cell transplantation for ..... S28  
 rescue regimen for ..... 627  
 salvage regimen for ..... 688  
 autologous stem cell transplantation for  
   amifostine cytoprotection in ..... 1022  
   chemotherapy and radiation with ..... 13  
 cotransplantation of hematopoietic stem cell and mesenchymal cells for,  
   from HLA-identical sibling ..... 389  
 cytotoxic effector cells for ..... 181  
 hematopoietic stem cell transplantation for, chemotherapy with ..... 739  
 high-dose chemotherapy for, pharmacokinetics of ..... 297  
 mantle cell, blood or marrow transplantation for, outcomes of ..... 39  
 umbilical cord blood transplantation for ..... 314, 929
- Malignant infantile osteopetrosis, autologous stem cell transplantation  
 for ..... 115
- Mediastinum, lymphoma of, hematopoietic stem cell transplantation with  
 chemotherapy for ..... 739
- Medulloblastoma, stem cells of ..... S12
- Melphalan  
 in high-dose chemotherapy regimen, for advanced cancer,  
   pharmacokinetics of ..... 297  
 before umbilical cord blood transplantation, for leukemia, in pediatric  
   patients ..... 637
- Memory T-cells, in allogeneic hematopoietic cell transplantation ..... 957
- Mesenchymal stem cells  
 in cytotoxic T-cell suppression ..... 1031  
 immunobiology of ..... 321  
 transplantation of, for hematologic malignancies ..... 389
- Metabolism, inborn errors of, mesenchymal stem cells for ..... 321
- Metapneumovirus infections, in hematopoietic stem cell  
 transplantation ..... 781
- Methotrexate, for graft-versus-host disease prevention ..... 383, 814
- Methylprednisolone, for graft-versus-host disease ..... 680
- Microangiopathy  
 after allogeneic hematopoietic stem cell transplantation ..... 551, 571  
 after bone marrow transplantation, in pediatric patients ..... 912
- Microchimerism, detection of, polymerase chain reaction in ..... 345

- Milk-derived growth factor extract, for mucositis prevention, in high-dose chemotherapy ..... 512
- Minor histocompatibility antigens  
in graft-versus-host disease ..... 371  
mismatch of, allogeneic bone marrow transplantation, mediation of... 576
- Mortality  
in allogeneic bone marrow transplantation, for acute lymphoblastic leukemia, conditioning regimens and ..... 448
- vin allogeneic hematopoietic stem cell transplantation  
from cytomegalovirus infections ..... 136  
for myelodysplastic syndrome ..... 65  
prediction and prevention of ..... 223  
racial factors in ..... 231  
in allogeneic peripheral blood stem cell transplantation, for myelodysplastic syndrome, outcome of ..... 619  
in autologous bone marrow transplantation, cytokine gene polymorphisms in ..... 455  
in autologous stem cell transplantation, with high-dose chemotherapy... 13  
in engraftment syndrome, in allogeneic hematopoietic stem cell transplantation ..... 542  
in graft-versus-host disease ..... 517
- Mouth, graft-versus-host disease of ..... 721, 945
- Mucosal addressin cell adhesion molecule 1, in graft-versus-host disease ..... 371
- Mucositis  
in graft-versus-host disease prevention ..... 383  
prevention of  
in autologous stem cell transplantation, amifostine in ..... 1022  
in high-dose chemotherapy ..... 512
- Multiple myeloma  
allogeneic hematopoietic stem cell transplantation for ..... 403  
autologous peripheral blood stem cell transplantation for ..... 528  
cotransplantation of hematopoietic stem cell and mesenchymal cells for, from HLA-identical sibling ..... 389
- Multiple sclerosis, allogeneic hematopoietic stem cell transplantation for, position statement on ..... 862
- Multipotent adult stem cell transplantation ..... 938
- Muscles, chronic graft-versus-host disease manifestations in ..... 945
- Mycophenolate mofetil  
for acute graft-versus-host disease prevention ..... 495  
for chronic graft-versus-host disease ..... 307  
high unbound concentrations of, in hematopoietic cell transplantation patient with sepsis and organ dysfunction ..... 977
- Myeloablative conditioning regimens. *See* Conditioning, myeloablative
- Myelodysplastic syndrome  
allogeneic hematopoietic stem cell transplantation for ..... 403  
induction chemotherapy for ..... 65  
allogeneic peripheral blood stem cell transplantation for  
in elderly persons ..... 764  
outcome of ..... 619  
cotransplantation of hematopoietic stem cell and mesenchymal cells for, from HLA-identical sibling ..... 389
- Myocardium, repair of, autologous bone marrow transplantation for ..... S2, S7
- Nails, chronic graft-versus-host disease manifestations in ..... 945
- National Cancer Institute, workshop on allogeneic hematopoietic stem cell transplantation for autoimmune disease ..... 862
- National Institute of Allergy and Infectious Diseases, workshop on allogeneic hematopoietic stem cell transplantation for autoimmune disease ..... 862
- National Institutes of Health, on chronic graft-versus-host disease clinical trials ..... 943, 945
- Natural killer cells  
in allogeneic hematopoietic cell transplantation ..... 957  
in engraftment resistance, to allogeneic hematopoietic stem cells ..... 1  
reconstitution of, in autologous hematopoietic stem cell transplantation, FLT3 ligand for ..... 23
- Nonmyeloablative conditioning. *See* Conditioning regimens, nonmyeloablative
- Nutrition, in autologous stem cell transplantation, amifostine for ..... 1022
- Oral cavity, graft-versus-host disease of ..... 721, 945
- Osteoclasts, dysfunction of, in malignant infantile osteopetrosis, autologous stem cell transplantation for ..... 115
- Osteogenesis imperfecta, mesenchymal stem cells for ..... 321
- Osteopetrosis, malignant infantile, autologous stem cell transplantation for ..... 115
- Outcomes. *See also* Mortality  
of allogeneic bone marrow transplantation  
assays for ..... 252  
for leukocyte adhesion deficiency ..... 755  
from unrelated donor, conditioning regimen effects on ..... 881
- of allogeneic hematopoietic stem cell transplantation ..... 241  
for acute lymphoblastic leukemia ..... 823  
for chronic myelomonocytic leukemia ..... 713  
from HLA-identical sibling  
ABO blood group and ..... 1006  
ethnic factors in ..... 988  
with induction chemotherapy ..... 65  
for lymphoma ..... 593  
racial factors in ..... 231  
reduced-intensity ..... 403  
from unrelated donors ..... 272  
with viral hemorrhagic cystitis ..... 781  
with viral respiratory infections ..... 781
- of allogeneic peripheral blood stem cell transplantation, for myelodysplastic syndrome, outcome of ..... 619
- of allogeneic progenitor cell transplantation, for myelodysplastic syndrome or acute myelogenous leukemia ..... 108
- of allogeneic transplantation, in pediatric patients ..... 362
- of autologous hematopoietic stem cell transplantation, for lymphoma ..... 129
- of autologous peripheral blood stem cell transplantation, for lymphoma, rescue regimen for ..... 627
- of blood or marrow transplantation, for mantle cell lymphoma ..... 39
- of graft-versus-host disease, with liver involvement ..... 805
- of stem cell transplantation, for Fanconi anemia ..... 672
- of umbilical cord blood transplantation, in adults ..... 149
- Paclitaxel, for germ cell tumors, autologous stem cell rescue for ..... 903
- Parainfluenza virus infections, in hematopoietic stem cell transplantation ..... 781
- Payment, Current Procedural Terminology codes for ..... 871
- Pediatric patients  
acute leukemia in, umbilical cord blood transplantation for ..... 936  
acute lymphoblastic leukemia in  
hematopoietic stem cell transplantation for ..... 999  
hematopoietic stem cell transplantation with chemotherapy for ..... 823  
acute lymphocyte leukemia in, umbilical cord blood transplantation for ..... 937
- allogeneic bone marrow transplantation in  
hemolytic uremic syndrome after ..... 912  
infections after ..... 362  
pulmonary complications in ..... 56
- allogeneic hematopoietic stem cell transplantation in  
chronic graft-versus-host disease after ..... 721  
infections after ..... 362  
reduced-intensity ..... 403  
viral hemorrhagic cystitis in ..... 797
- leukemia in, umbilical cord blood transplantation for ..... 637
- malignant infantile osteopetrosis in, autologous stem cell transplantation for ..... 115
- stem cell transplantation in, thymic function after ..... 194
- thalassemia in, umbilical cord blood transplantation for ..... 937
- umbilical cord blood transplantation in ..... 362, 921
- Perforin, in engraftment resistance, to allogeneic hematopoietic stem cells ..... 1
- Peripheral blood stem cell transplantation. *See* Allogeneic peripheral blood stem cell transplantation; Autologous peripheral blood stem cell transplantation
- Platelet-endothelial cell adhesion molecule-1, in graft-versus-host disease ..... 371
- Pneumococcal vaccine, response to, after autologous hematopoietic stem cell transplantation ..... 213
- Pneumocystis jiroveci* prophylaxis, after allogeneic hematopoietic stem cell transplantation, toxicity of ..... 521
- Pneumonia  
in allogeneic bone marrow transplantation, natural history of, in pediatric patients ..... 56  
*Aspergillus*, after allogeneic hematopoietic stem cell transplantation, computed tomography in ..... 506  
viral, in hematopoietic stem cell transplantation ..... 781
- Polymerase chain reaction  
for chimerism detection ..... 558  
for human herpesvirus 6 subtypes, after bone marrow transplantation ..... 530  
for microchimerism detection ..... 345
- Prednisone, after failed autologous peripheral blood stem cell transplantation ..... 627
- Preparative regimens. *See* Conditioning regimens
- Progenitor cell transplantation, for acute myelogenous leukemia or myelodysplastic syndrome ..... 108
- Pseudomonas aeruginosa* infections, after umbilical cord blood transplantation ..... 437
- PV701 (milk-derived growth factor extract), in high-dose chemotherapy ..... 512

- Quality control  
   in hematopoietic stem cell transplantation ..... 241  
   in umbilical cord blood transplantation ..... 247, 921
- Racial factors  
   in allogeneic hematopoietic stem cell transplantation survival ..... 231  
   in hematopoietic stem cell transplantation, from identical siblings ..... 988
- Radioimmunotherapy, for autologous hematopoietic stem cell transplantation ..... S40
- Radiotherapy. *See* Irradiation, total body
- Rapamycin. *See* Sirolimus
- Regeneration, tissue, umbilical cord blood transplantation for ..... 921
- Rejection  
   of allogeneic bone marrow transplantation, assays for ..... 252  
   of hematopoietic stem cell transplantation, from unrelated donors ..... 272
- Relapse  
   in acute myelogenous leukemia, allogeneic progenitor cell transplantation for ..... 108  
   in lymphoma, cytotoxic effector cells for ..... 181  
   in myelodysplastic syndrome  
     after allogeneic hematopoietic stem cell transplantation ..... 65  
     in progenitor cell transplantation ..... 108  
   racial factors in, in allogeneic hematopoietic stem cell transplantation ..... 231
- Respiratory disorders  
   after allogeneic bone marrow transplantation, natural history of, in pediatric patients ..... 56  
   after allogeneic hematopoietic stem cell transplantation ..... 288, 781  
   prediction and prevention of ..... 223
- Respiratory syncytial virus infections, in hematopoietic stem cell transplantation ..... 781
- Rheumatoid arthritis, allogeneic hematopoietic stem cell transplantation for ..... 403, 862
- Rituximab  
   after failed autologous peripheral blood stem cell transplantation ..... 627  
   for graft-versus-host disease ..... 465
- Scalp, chronic graft-versus-host disease manifestations in ..... 945
- Selectins, in graft-versus-host disease ..... 371
- Sepsis, in umbilical cord blood transplantation, mycophenolate mofetil concentrations in ..... 977
- Severe combined immune deficiency, gene therapy for ..... 972
- Sibling donors. *See under* Donor(s)
- Sirolimus  
   for chronic graft-versus-host disease ..... 47  
   for graft-versus-host disease prevention ..... 383  
   thrombotic microangiopathy due to ..... 551
- Skin, chronic graft-versus-host disease manifestations in ..... 945
- Staging, of chronic graft-versus-host disease ..... 943, 945
- Standards, for umbilical cord blood transplantation ..... 938
- Staphylococcus aureus* infections, after umbilical cord blood transplantation ..... 437
- Stem cell(s)  
   brain tumor ..... S12  
   leukemia ..... S9  
   mesenchymal, immune-modulatory function ..... 1031  
   multipotent, in adults ..... 938  
   self-renewal of ..... S14  
   transplantation of  
     allogeneic. *See* Allogeneic bone marrow transplantation  
     autologous. *See* Autologous stem cell transplantation  
     hematopoietic. *See* Hematopoietic stem cells, transplantation of  
   Wharton's jelly ..... 938
- Stem cell factor, in umbilical cord blood transplantation ..... 932
- Systemic lupus erythematosus, allogeneic hematopoietic stem cell transplantation for ..... 403  
   position statement on ..... 862
- Systemic sclerosis, allogeneic hematopoietic stem cell transplantation for, position statement on ..... 862
- T cell(s)  
   adoptive transfer of, after autologous hematopoietic stem cell transplantation ..... S34  
   alloresponses to ..... 651  
     in graft-versus-host disease ..... S24  
   amotosalen-treated, for graft-versus-host disease prevention ..... 169  
   CD4-CD25, regulatory function of ..... S46  
   CD8  
     in minor histocompatibility antigen mismatch, in allogeneic bone marrow transplantation ..... 576  
     receptor epitope association rate of ..... 260  
   effector. *See* Cytotoxic effector cells  
   gamma-delta, immunotherapy with ..... 161  
   helper, in in utero allogeneic bone marrow transplantation ..... 657  
   in lymphoblastic lymphoma, hematopoietic stem cell transplantation and chemotherapy for ..... 739  
   reconstitution of, in autologous hematopoietic stem cell transplantation, FLT3 ligand for ..... 23  
   regulatory  
     umbilical cord blood transplantation and ..... 931  
   Tacrolimus, for graft-versus-host disease prevention, mucositis in ..... 383  
   Tetramer-binding assay, for immune reconstitution, after allogeneic hematopoietic stem cell transplantation ..... 890
- Thalassemia, umbilical cord blood transplantation for  
   chimerism in ..... 349  
   in pediatric patients ..... 937
- Thomas Lecture, on T-cell alloresponses ..... 651
- Thrombocytopenia, after allogeneic hematopoietic stem cell transplantation ..... 571
- Thrombotic microangiopathy, after allogeneic hematopoietic stem cell transplantation  
   consensus summary on ..... 571  
   sirolimus-induced ..... 551
- Thrombotic thrombocytopenic purpura, after allogeneic hematopoietic stem cell transplantation ..... 571
- Thymus, function of, after stem cell transplantation, in pediatric patients ..... 194
- Tolerance, in utero allogeneic bone marrow transplantation and ..... 657
- Tongue, graft-versus-host disease of, after allogeneic hematopoietic stem cell transplantation, in pediatric patients ..... 721
- Total body irradiation. *See* Irradiation, total body
- Tumor necrosis factor- $\alpha$   
   after allogeneic stem cell transplantation  
     cytomegalovirus infections and ..... 698  
     graft-versus-host disease and ..... 706  
   in engraftment resistance, to allogeneic hematopoietic stem cells ..... 1  
   inhibitors of, for graft-versus-host disease ..... 680
- Umbilical cord blood transplantation  
   accreditation issues in ..... 921, 938  
   for acute lymphocytic leukemia, in pediatric patients ..... 937  
   in adults ..... 149, 921, 928, 929, 932  
   bacteremia after ..... 429  
   banking procedure standardization in ..... 933  
   colony forming cell assays in ..... 935  
   cryopreservation of ..... 934  
   double dose of ..... 930  
   efficacy of, augmentation of ..... 921  
   ex vivo expanded ..... 932  
   for hematologic malignancies, in pediatric patients ..... 937  
   herpesvirus transmission in ..... 35  
   homing augmentation in ..... 933  
   immune reconstitution after ..... 921, 931  
   for inborn errors of metabolism ..... 935  
   infections after ..... 362, 930  
   for leukemia ..... 637, 928, 936  
   for lymphoma, indolent ..... 929  
   mycophenolate mofetil concentrations in, with sepsis and organ dysfunction ..... 977  
   myeloablative conditioning with ..... 928  
   National Cord Blood Policy Board for ..... 939  
   after nonmyeloablative conditioning ..... 929  
   versus other stem cell products, algorithm for selection of ..... 932  
   in pediatric patients ..... 921  
   posttransplantation lymphoproliferative disease after ..... 732  
   quality control in ..... 247, 921, 934  
   reduced-intensity, for lymphoma ..... 314  
   for regeneration ..... 921  
   regulatory T-cells and ..... 931  
   stem cell factor with ..... 932  
   symposium on (2005) ..... 921  
   for thalassemia major ..... 349  
   unrelated  
     in pediatric patients ..... 935  
     peripheral blood transplantation support with ..... 930  
     for thalassemia ..... 937
- Urinary tract  
   chronic graft-versus-host disease manifestations in ..... 945  
   viral infections of, in allogeneic hematopoietic stem cell transplantation, in pediatric patients ..... 797
- Vaccines, pneumococcal, response to, after autologous hematopoietic stem cell transplantation ..... 213
- Vascular cell adhesion molecule-1, in graft-versus-host disease ..... 371
- Vincristine, after failed autologous peripheral blood stem cell transplantation ..... 627
- Viral infections, in hematopoietic stem cell transplantation ..... 781  
   cystitis ..... 781
- Visilizumab, for graft-versus-host disease ..... 465
- Voriconazole, for *Aspergillus* infections ..... 77
- Wharton's jelly stem cells ..... 938
- X-linked severe combined immune deficiency, gene therapy for ..... 972